



Thursday, May 20, 2021

Attn: Mr. Keith Gammell  
Barnhardt Mfg. Co.  
247 Main Rd  
P.O. Box 3  
Colrain, MA 01340

Project ID: NPDES MAY 2021  
SDG ID: GCI23975  
Sample ID#s: CI23975

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

May 20, 2021

SDG I.D.: GCI23975

Project ID: NPDES MAY 2021

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Client Id	Lab Id	Matrix
EFFLUENT	CI23975	WASTE WATER



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## Analysis Report

May 20, 2021

FOR: Attn: Mr. Keith Gammell  
Barnhardt Mfg. Co.  
247 Main Rd  
P.O. Box 3  
Colrain, MA 01340

### Sample Information

Matrix: WASTE WATER  
Location Code: BARNHARD  
Rush Request: Standard  
P.O.#: G12043

### Custody Information

Collected by:  
Received by: CP  
Analyzed by: see "By" below

### Date

05/05/21

### Time

7:00

05/05/21

16:40

## Laboratory Data

SDG ID: GCI23975  
Phoenix ID: CI23975

Project ID: NPDES MAY 2021  
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chromium	0.003	0.001	mg/L	1	05/07/21	CPP	E200.7
Copper	0.028	0.003	mg/L	1	05/07/21	CPP	E200.7
B.O.D./5 day	< 4.0	4.0	mg/L	2	05/06/21 15:53	VM/C/KBI	SM 5210B-11
B.O.D./5 day End Incubation					05/11/21 17:20	VM/C/KBI	SM 5210B-11
C.O.D.	198	10	mg/L	1	05/07/21	QH	SM 5220D-11
Ammonia as Nitrogen	0.35	0.10	mg/L	2	05/19/21	KDB	E350.1
Nitrite-N	0.063	0.010	mg/L	1	05/05/21 22:01	TB	E353.2
Nitrate-N	6.96	0.20	mg/L	10	05/05/21 22:04	TB	E353.2
Nitrogen Tot Kjeldahl	6.95	0.20	mg/L	2	05/19/21	KDB	E351.1
Total Nitrogen	14.0	0.10	mg/L	1	05/19/21	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	3.41	0.050	mg/L	5	05/07/21	MI	SM4500PE-11
Total Suspended Solids	4.0	3.3	mg/L	0.7	05/07/21	QH/ARG	SM 2540D-11
Total Metals Digestion	Completed				05/06/21	AG/BF/BF	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

May 20, 2021

Reviewed and Released by: Kathleen Cressia, QA/QC Officer



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## QA/QC Report

May 20, 2021

### QA/QC Data

SDG I.D.: GCI23975

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 574309 (mg/L), QC Sample No: CI25079 (CI23975)													
<u>ICP Metals - Aqueous</u>													
Chromium	BRL	0.0005	<0.001	<0.0005	NC	105	98.6	6.3	92.6	96.7	4.3	80 - 120	20
Copper	BRL	0.0025	0.0047	0.0332	NC	97.1	96.7	0.4	94.4	99.3	5.1	80 - 120	20
Comment:													
Additional: LCS acceptance range is 80-120% MS acceptance range 75-125%.													



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## QA/QC Report

May 20, 2021


### QA/QC Data

SDG I.D.: GCI23975

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 574429 (mg/L), QC Sample No: CI23133 (CI23975)													
C.O.D.	BRL	10	<10	12	NC	98.1			104			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 574447 (mg/L), QC Sample No: CI23352 (CI23975)													
Phosphorus, as P	BRL	0.01	0.823	0.816	0.90	102			NC			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 574262 (mg/L), QC Sample No: CI23757 (CI23975)													
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	111			123			70 - 130	20
B.O.D./5 day GGA BOD						87.4						84 - 115	20
QA/QC Batch 574370 (mg/L), QC Sample No: CI24581 (CI23975)													
Total Suspended Solids	BRL	2.5	<5.0	<5.0	NC	94.0						85 - 115	
QA/QC Batch 574137 (mg/L), QC Sample No: CI23954 (CI23975)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	101			101			90 - 110	20
Nitrite-N	BRL	0.01	0.135	0.14	3.60	101			102			90 - 110	20
QA/QC Batch 575843 (mg/L), QC Sample No: CI33270 (CI23975)													
Ammonia as Nitrogen	BRL	0.05	<0.05	0.06	NC	99.3			100			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	0.21	0.27	NC	103			101			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference  
LCS - Laboratory Control Sample  
LCSD - Laboratory Control Sample Duplicate  
MS - Matrix Spike  
MS Dup - Matrix Spike Duplicate  
NC - No Criteria  
Intf - Interference

  
Phyllis Shiller, Laboratory Director  
May 20, 2021

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Criteria: None  
State: MA

Sample Criteria Exceedances Report  
GCI23975 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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## Analysis Comments

May 20, 2021

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

